AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of controlling the coupling of multi-platform reservoir and network simulators comprising:

> synchronizing the advancement through time of the <u>network</u> simulators; [[and]]

> converting <u>each of</u> the hydrocarbon fluid streams <u>to a fluid model of a controller</u> between different sets of <u>based on corresponding</u> pseudo-components used in the <u>network</u> simulators<u>;</u>

> <u>obtaining a coupled simulation using the converted hydrocarbon fluid streams; and</u>

> <u>generating a plan based on the coupled simulation, wherein the plan is implemented to improve production of the multi-platform reservoir.</u>

2. (Currently Amended) A controller for coupling multi-platform reservoir and network simulators comprising<u>:</u>

> means for synchronizing the advancement through time of the <u>network</u> simulators<u>;</u> [[and]]

> means for converting <u>each of</u> the hydrocarbon fluid streams <u>to a fluid model of the controller</u> between different sets of <u>based on corresponding</u> pseudo-components used in the <u>network</u> simulators<u>;</u>

> <u>means for obtaining a coupled simulation using the converted hydrocarbon fluid streams; and</u>

> <u>means for generating a plan based on the coupled simulation, wherein the plan is implemented to improve production of the multi-platform reservoir.</u>

3. (Currently Amended) The controller of claim [[3]] <u>2</u> additionally comprising means for applying production and injection constraints <u>to the coupled simulation by apportioning the production and injection constraints between the network simulators.</u>

4. (Original) The controller of claim 3 additionally comprising means for balancing reservoir and surface networks.

5. (Canceled)